

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584462

Luminaire Tested: **HC835D010-HM82555930-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555930-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3812.2 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

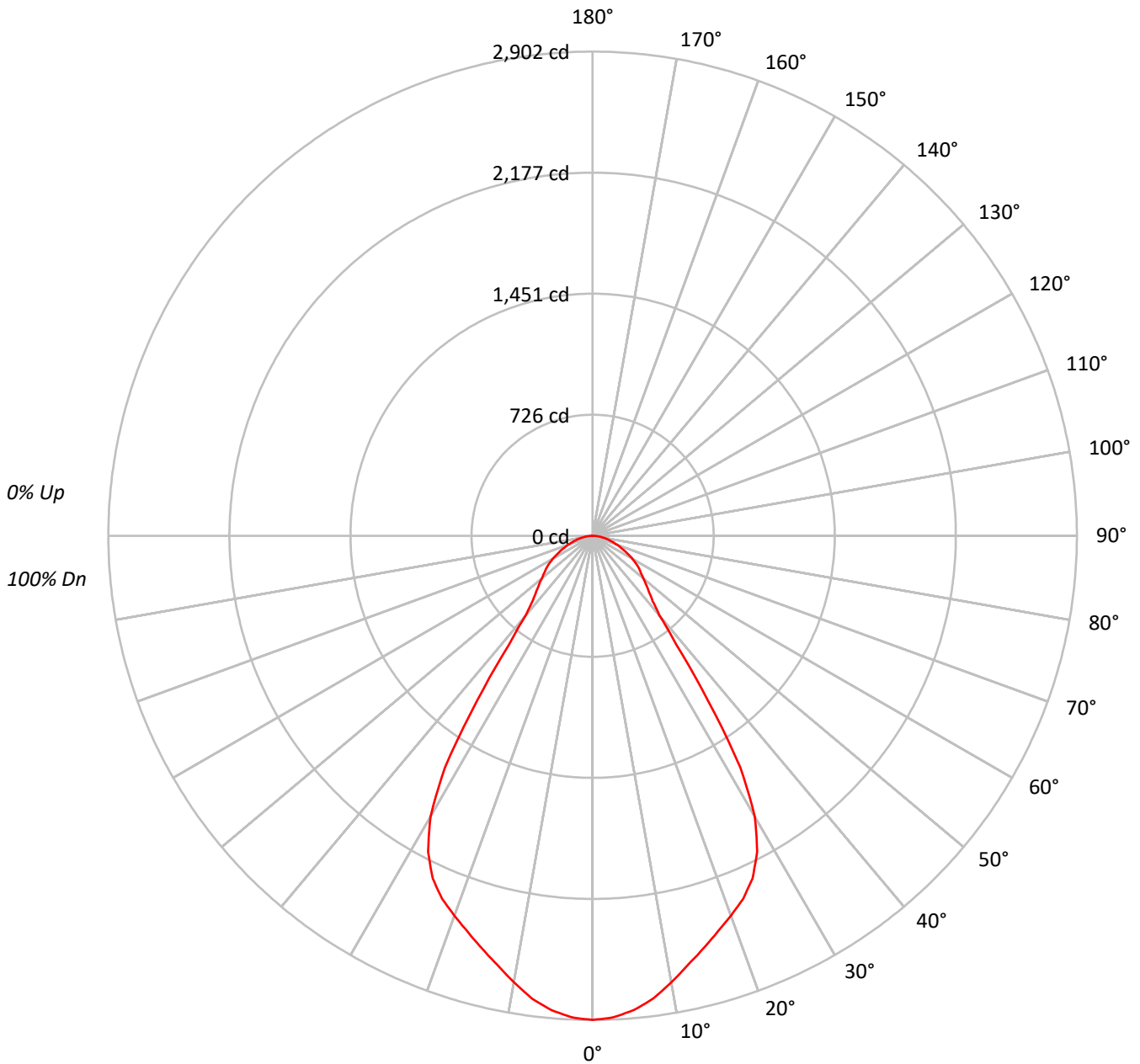
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	89484
5°	88318
10°	85084
15°	81758
20°	79495
25°	77102
30°	69191
35°	45354
40°	25078
45°	20902
50°	19064
55°	18193
60°	16917
65°	15337
70°	13867
75°	12522
80°	11383
85°	10897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.1	7.0
10°-20°	722.5	19.0
20°-30°	1028.3	27.0
30°-40°	761.0	20.0
40°-50°	376.9	9.9
50°-60°	300.9	7.9
60°-70°	208.8	5.5
70°-80°	112.5	3.0
80°-90°	33.1	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2018.9	53.0
0°-40°	2779.9	72.9
0°-60°	3457.7	90.7
0°-90°	3812.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2902	
5°	2853	268
15°	2561	723
25°	2266	1028
35°	1205	761
45°	479	377
55°	338	301
65°	210	209
75°	105	113
85°	31	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2901.9
2.5°	2889.1
5°	2853.2
7.5°	2796.7
10°	2717.3
12.5°	2635.2
15°	2561.0
17.5°	2489.2
20°	2422.5
22.5°	2355.9
25°	2266.1
27.5°	2135.4
30°	1943.2
32.5°	1648.3
35°	1204.8
37.5°	822.9
40°	623.0
42.5°	533.2
45°	479.3
47.5°	435.8
50°	397.4
52.5°	364.1
55°	338.4
57.5°	307.6
60°	274.3
62.5°	240.9
65°	210.2
67.5°	179.5
70°	153.8
72.5°	128.2
75°	105.1
77.5°	84.6
80°	64.1
82.5°	46.1
85°	30.8
87.5°	12.8
90°	0.0



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— 0°-180°







(END OF REPORT)